

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A substrate voltage generating circuit comprising:
a first power supply node supplied with a first potential level;
a second power supply node supplied with a second potential level lower than the first potential level;
an output node ~~receiving a voltage~~ having a third potential level lower than the second potential level;
a level shift circuit which is coupled between the first power supply node and the output node, which receives an input signal having the first and second potential levels, and which outputs an output signal having the first potential level and the third potential level;
and
a switch circuit which connects the second power supply node to the output node in response to the output signal.
2. (Original) The substrate voltage generating circuit according to claim 1, wherein the level shift circuit comprises:
a first transistor of a first conductivity type which has a gate receiving the input signal, a source connected to the first power supply node, and a drain;
a second transistor of the first conductivity type which has a gate receiving the input signal, a source connected to the first power supply node, and a drain coupled to the switch circuit;
a third transistor of a second conductivity type which has a gate connected to the gate of the first transistor, a source, a drain connected to the drain of the first transistor, and a gate oxide film having a first thickness;
a fourth transistor of the second conductivity type which has a gate connected to the gate of the second transistor, a source, a drain connected to the drain of the second transistor, and a gate oxide film having the first thickness;

a fifth transistor of the second conductivity type which has a gate connected to the drain of the second transistor, a source connected to the output node, a drain connected to the source of the third transistor, and a gate oxide film having a second thickness thinner than the first thickness; and

a sixth transistor of the second conductivity type which has a gate connected to the drain of the first transistor, a source connected to the output node, a drain connected to the source of the fourth transistor, and a gate oxide film having the second thickness.

3. (Currently Amended) The substrate voltage generating circuit according to claim 1, wherein the level shift circuit comprises:

a first transistor of a first conductivity type which has a gate receiving the input signal, a source connected to the first power supply node, and a drain;

a second transistor of the first conductivity type which has a gate receiving the input signal, a source connected to the first power supply node, and a drain coupled to the switch circuit;

a third transistor of a second conductivity type which has a gate connected to the drain of the second transistor, a source, a drain connected to the drain of the first transistor, and a gate oxide film having a first thickness; a fourth transistor of the second conductivity type which has a gate connected to the drain of the first transistor, a source, a drain connected to the drain of the second transistor, and a gate oxide film having the first thickness;

a fifth transistor of the second conductivity type which has a gate connected to the gate of the first transistor, a source connected to the output node, a drain connected to the source of the third transistor, and a gate oxide film having a second thickness ~~thinner~~ thicker than the first thickness; and

a sixth transistor of the second conductivity type which has a gate connected to the gate of the second transistor, a source connected to the output node, a drain connected to the source of the fourth transistor, and a gate oxide film having the second thickness.

4. (Original) The substrate voltage generating circuit according to claim 1, wherein the switch circuit comprises:

a switching element which has a control electrode receiving the output signal, a first electrode connected to the second power supply node, and a second electrode connected to the output node; and

a capacitor coupled between the first electrode and the control electrode.

5. (Original) The substrate voltage generating circuit according to claim 1, wherein the second potential level is 0 volt.

6. (Original) The substrate voltage generating circuit according to claim 1, wherein the third potential level is a negative voltage level.

7. (Original) A voltage level shifting circuit comprising:

a first transistor of a first conductivity type which has a gate receiving an input signal, a source connected to a first supply node supplied with a first potential level, and a drain;

a second transistor of the first conductivity type which has a gate receiving the input signal, a source connected to the first supply node, and a drain coupled to an output node;

a third transistor of a second conductivity type which has a gate connected to the gate of the first transistor, a source, a drain connected to the drain of the first transistor, and a gate oxide film having a first thickness;

a fourth transistor of the second conductivity type which has a gate connected to the gate of the second transistor, a source, a drain connected to the drain of the second transistor, and a gate oxide film having the first thickness;

a fifth transistor of the second conductivity type which has a gate connected to the drain of the second transistor, a source connected to a second supply node supplied with a second potential level lower than the first potential level, a drain connected to the source of the third transistor, and a gate oxide film having a second thickness thinner than the first thickness; and

a sixth transistor of the second conductivity type which has a gate connected to the drain of the first transistor, a source connected to the second supply node, a drain connected to the source of the fourth transistor, and a gate oxide film having the second thickness.

8. (Currently amended) The ~~substrate voltage generating~~ voltage level shifting circuit according to claim 7, wherein the first potential level is a positive voltage level and the second potential level is a negative voltage level.

9. (Currently amended) A voltage level shifting circuit comprising:
a first transistor of a first conductivity type which has a gate receiving an input signal, a source connected to a first supply node supplied with a first potential level, and a drain;
a second transistor of the first conductivity type which has a gate receiving the input signal, a source connected to the first supply node, and a drain coupled to an output node;
a third transistor of a second conductivity type which has a gate connected to the drain of the second transistor, a source, a drain connected to the drain of the first transistor, and a gate oxide film having a first thickness;
a fourth transistor of the second conductivity type which has a gate connected to the drain of the first transistor, a source, a drain connected to the drain of the second transistor, and a gate oxide film having the first thickness;
a fifth transistor of the second conductivity type which has a gate connected to the gate of the first transistor, a source connected to a second supply node supplied with a second potential level lower than the first potential level, a drain connected to the source of the third transistor, and a gate oxide film having a second thickness ~~thinner~~ thicker than the first thickness; and
a sixth transistor of the second conductivity type which has a gate connected to the gate of the second transistor, a source connected to the second supply node, a drain connected to the source of the fourth transistor, and a gate oxide film having the second thickness.

10. (Currently amended) The ~~substrate voltage generating~~ voltage level shifting circuit according to claim 9, wherein the first potential level is a positive voltage level and the second potential level is a negative voltage level.